

#### ABSTRACT OF THE DISCLOSURE

The method comprises the step of short time Laplace transforming a signal and may be utilized for classifying the system in question in accordance with one or more determined parameters into one class of a set of predefined classes defined by predetermined ranges of values of the parameters. The invention also relates to the use of a shape of energy changes of a signal for identifying or representing features of the system generating the signal. This use may be applied to recognition of sound features perceivable by e.g. a human ear as representing a distinct sound picture. It has for example been found that the signal information relevant to recognition of speech is present in a transient part of the speech signal.